

Amendments to the Claims:

The text of all pending claims, (including withdrawn claims) is set forth below. Canceled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (canceled), (withdrawn), (new), (previously presented), or (not entered).

Applicant reserves the right to pursue any canceled claims at a later date.
The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. – 33. (canceled)

34. (previously presented) A material transport monitoring system for use in and about a facility, for monitoring the movement of material by a transport mechanism, comprising:

a first data processing device;

at least one detection device for providing information determinative of planar position coordinates of the mobile transport mechanism, wherein the detection device is mountable to the transport mechanism, wherein the detection device has means for sending and receiving signals;

a second data processing device positionable on or within the transport mechanism;

a plurality of response units positioned at fixed locations about the facility and cooperatively coupled with the detection device to provide the information determinative of coordinates;

one or more wireless links for effecting data transfer from the detection device to the first data processing device and for effecting communication between the first and second data processing devices, wherein upon receiving signals from the detection device the response units provide signals to the detection device, by means of which position coordinates of the transport mechanism are determinable and locations of material can be determined.

35. (previously presented) The material transport monitoring system according to claim 34 configured to determine the current speed of the transport mechanism.

36. (previously presented) The material transport monitoring system according to claim 34, wherein the data processing device and/or the detection device is capable of calibrating the position coordinates of the transport mechanism to a material-relevant point.

37. (previously presented) The material transport monitoring system according to claim 34, configured to provide position coordinates with at least one area identifier.

38. (previously presented) The material transport monitoring system according to claim 34, configured to determine a type of storage of the material from the position angle.

39. (previously presented) The material transport monitoring system according to claim 34, wherein the detection device is configured as a radar device.

40. (previously presented) The material transport monitoring system according to claim 34, wherein the detection device provides current position information to the first data processing device for determination of current speed and position angle of the transport mechanism.

41. (previously presented) The material transport monitoring system according to claim 34, configured to define material pick-up points with respect to a material-relevant point on the transport mechanism.

42. (previously presented) The material transport monitoring system according to claim 41 configured to: define material relevant points for different types of transport mechanisms including stacker trucks; define elevation coordinates in conjunction with the planar position coordinates; and determine a position angle of the transport mechanism relative to a storage location.

43. (previously presented) The material transport monitoring system according to claim 42 configured to verify and provide storage inventory information according to discrete storage locations.

44. (previously presented) The material transport monitoring system according to claim 34, wherein the data processing device connected to the transport mechanism is connected to a device for the visual display of transport instructions, position, and/or material information.